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AIR TECHNICAL INTELLIGENCE CENTER
WRIGHT-PATTERSON AIR FORCE BASE
OHIO

MAR - 0 5 1956

AFOIN-4Alc

MEMORANDUM FOR DIRECTOR OF INTELLIGENCE
ATTN: Captain Steffen, AFOIN-LAS

SUBJECT: (Uncl'd) Characteristics of Materials

1. Reference is made to the harness which was loaned on 6 March 1954 to Mr. Henry C. Knutson, for examination by specialists of his organization and their recommendations or comments as to desirable improvements by form molding materials to eliminate sharp protrusions or bulges. (UNCLD)

2. It is requested that Mr. Knutson be furnished the following list of precautions with a view to assurance that the material:

a. System Effects. Will not interfere with the functioning of articles stowed in the harness.

b. Bulk. Will not increase nor distort the body size to a noticeable degree.

c. Body Effects.

(1) Is flexible to avoid impeding normal body activity, i.e., breathing, standing, sitting, bending, stretching, walking, running, etc.

(2) Will not cause serious discomfort or excessive perspiration due to friction, heat, or sealing off the skin pores.

(3) Is not toxic or noxious to the body.

d. Access.

(1) Will not unduly increase the difficulty of inserting or removing articles from the harness.

(2) Will not impede putting on or removing the harness.
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3. This harness is of the type used for rations, medical supplies, etc. We are desirous of having Mr. Knutson's people form-mold three of them, if practicable and if their comments show this to be worthwhile. One would be used as a prototype for making additional copies. We are also interested in contacting any experienced tailoring sources who could make additional harnesses (quantity of 20 to 30), and in having these form-molded. Any comments or suggestions on this subject will be appreciated. (UNCLD)

George R. Weinbrenner
GEORGE R. WEINBRENNER
Colonel, USAF
AFOIN-4A

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